

Title: RECOMBINANT PRODUCTION OF NOVEL
POLYKETIDES

Inventor: Chaitan KHOSLA, et al.

Application No.: 09/925,236

Docket No.: 300622000123

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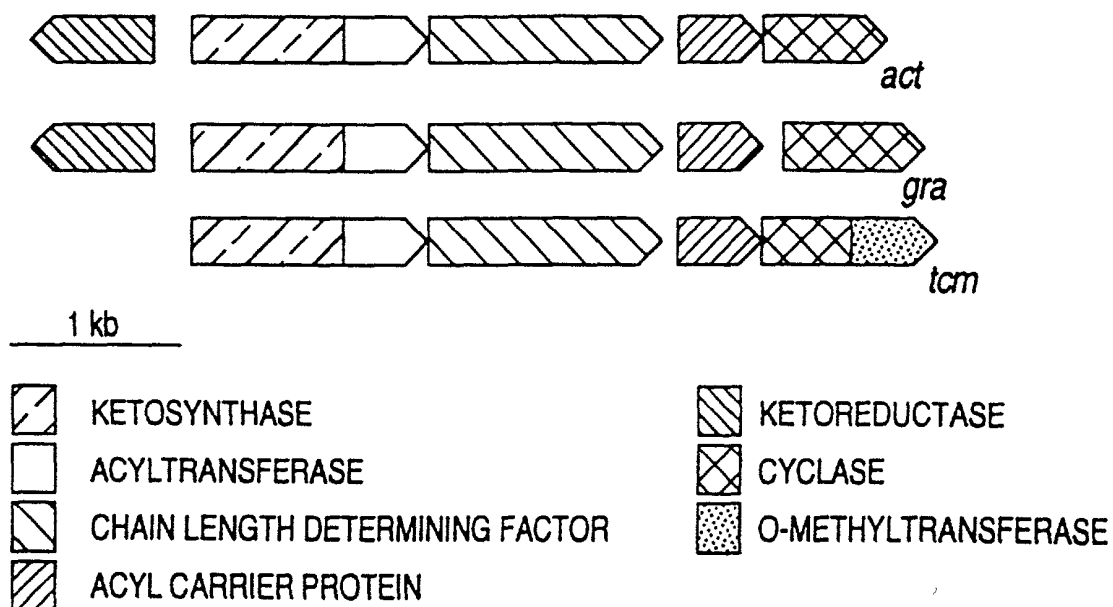


FIG. 1

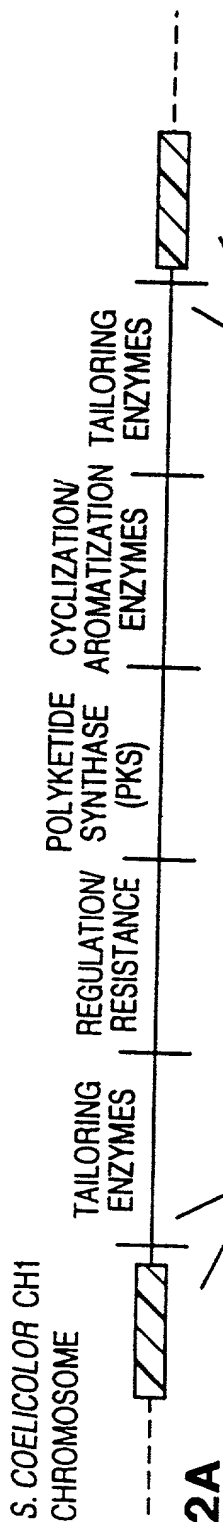


FIG. 2A

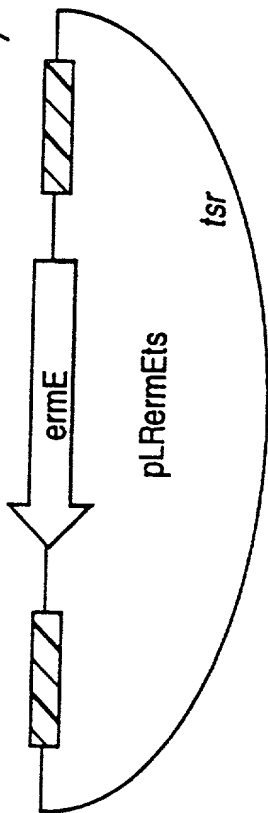


FIG. 2B

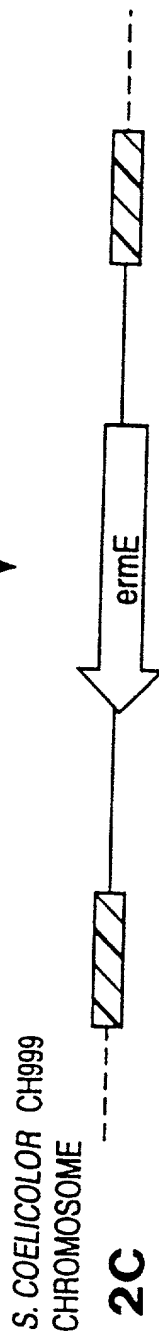


FIG. 2C

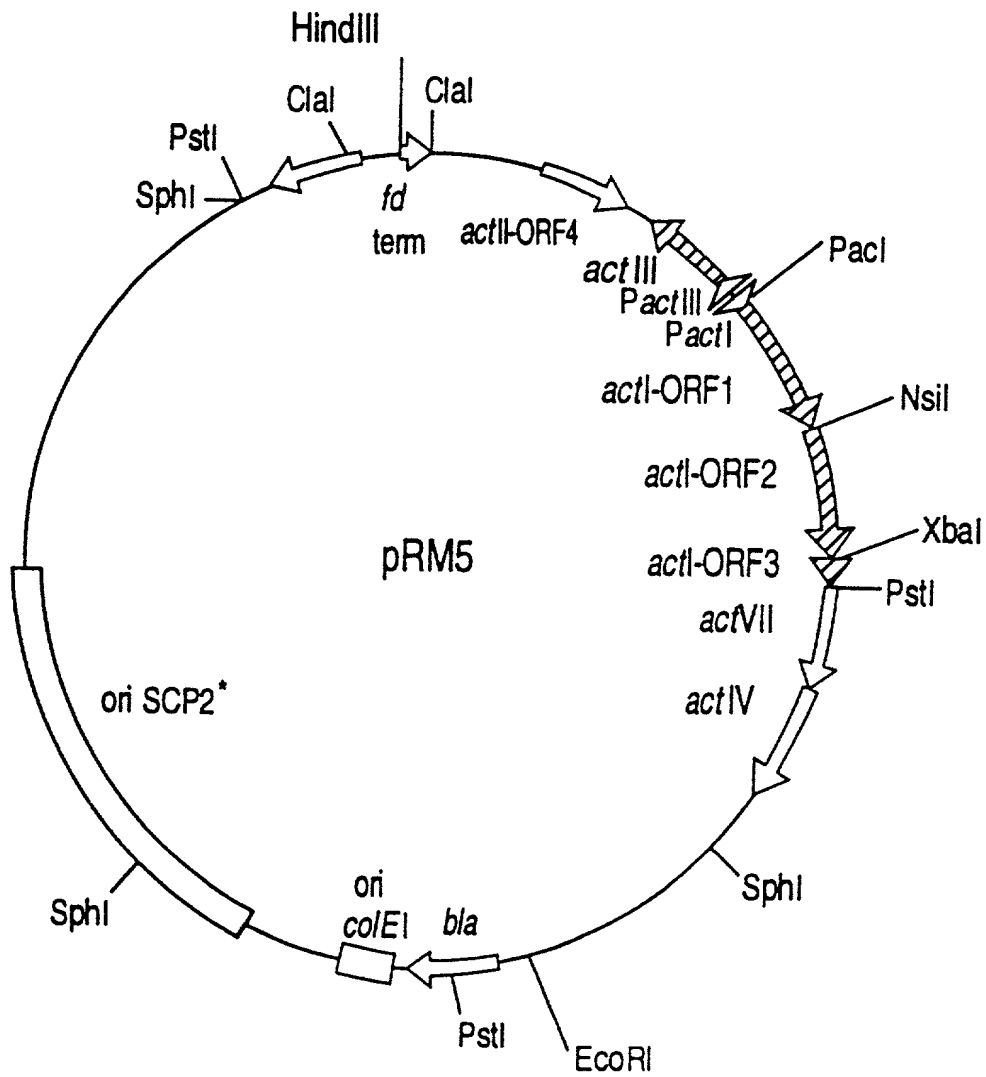
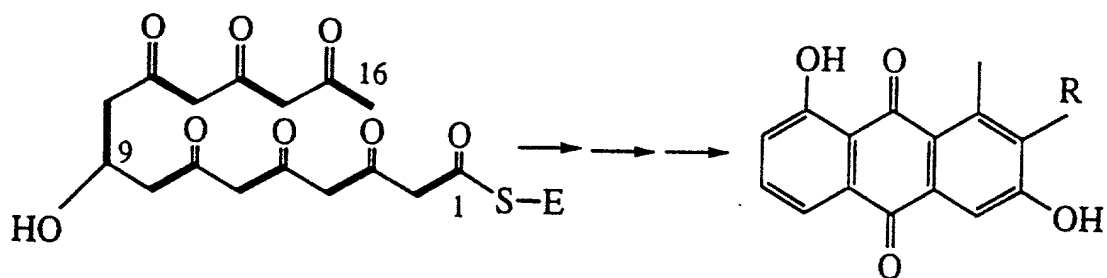


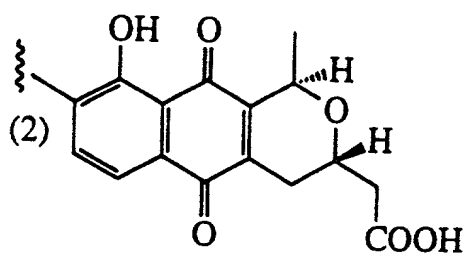
FIG. 3



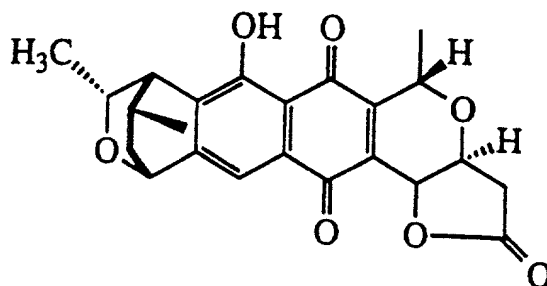
R
COOH 3,8-dihydroxy-1-
methylantraquinone-2-
carboxylic acid (1)

H Aloesaponarin II (2)

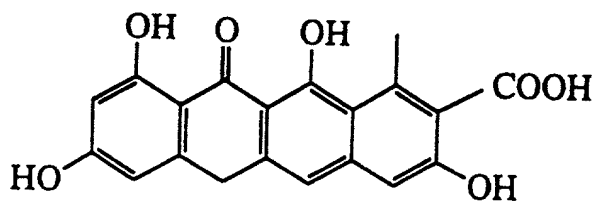
FIG. 4



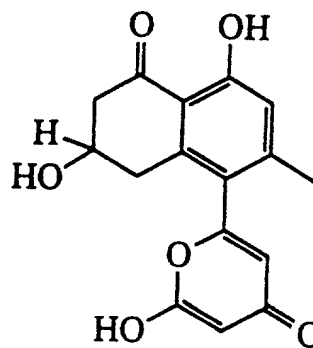
ACTINORHODIN (3)



GRANATICIN (4)



TETRACENOMYCIN F1 (5)



MUTACTIN (6)

FIG. 5

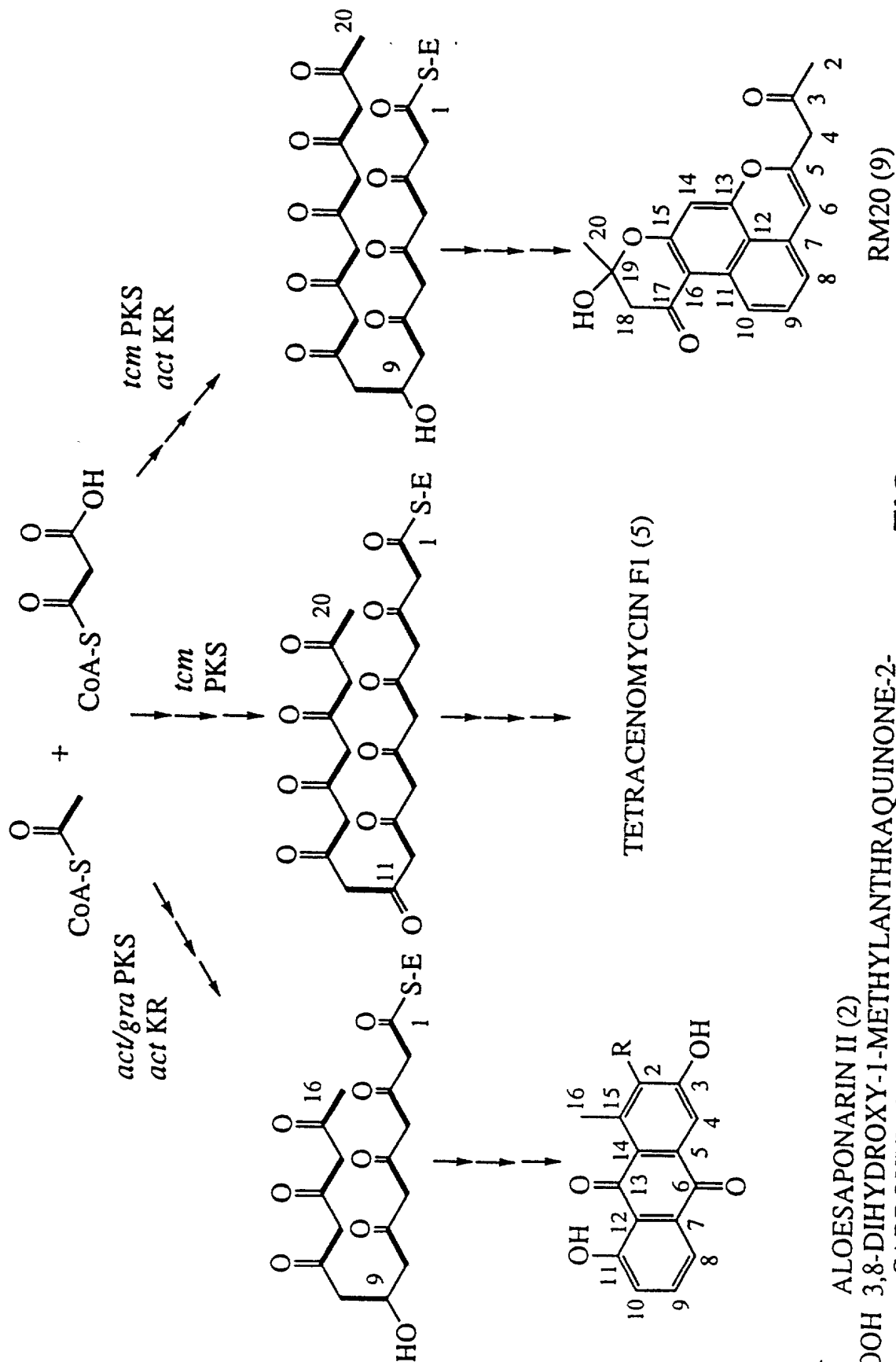
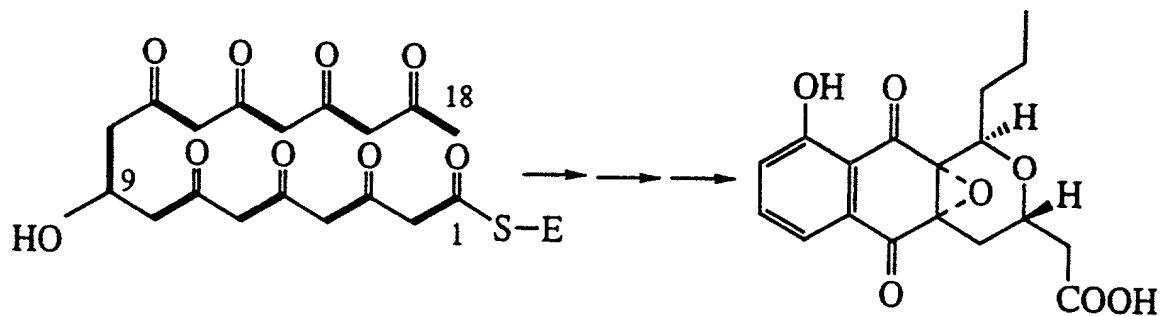
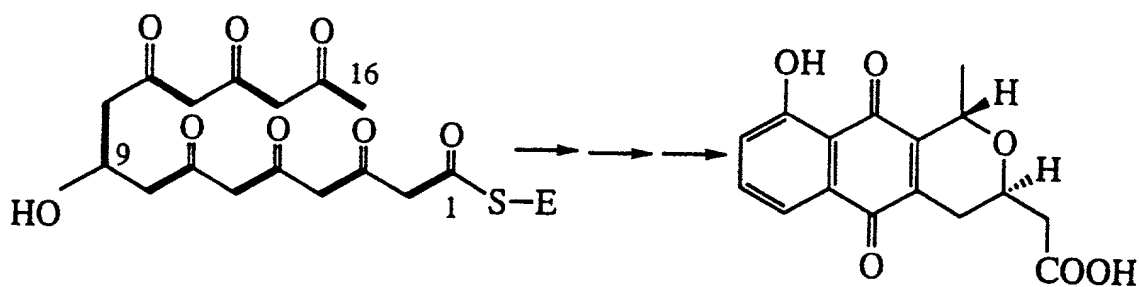


FIG. 6

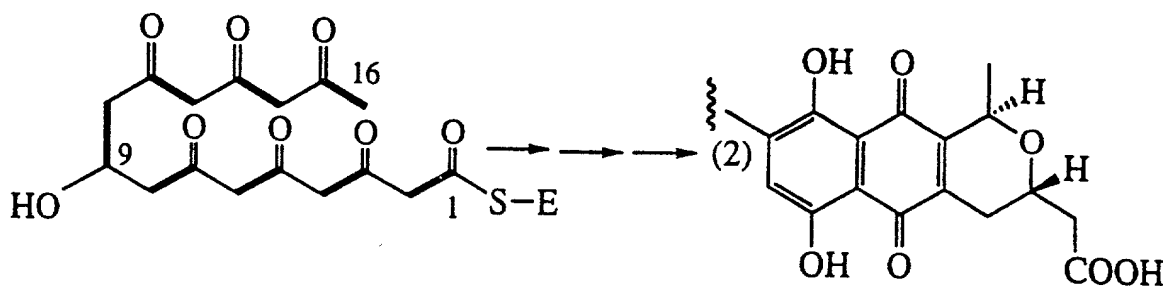
$\frac{R}{-H}$ ALOESAPONARIN II (2)
-COOH 3,8-DIHYDROXY-1-METHYLANTHRAQUINONE-2-CARBOXYLIC ACID (1)



FRENOLICIN B (7)



NANAOMYCIN A (8)



ACTINORHODIN (3)

FIG. 7

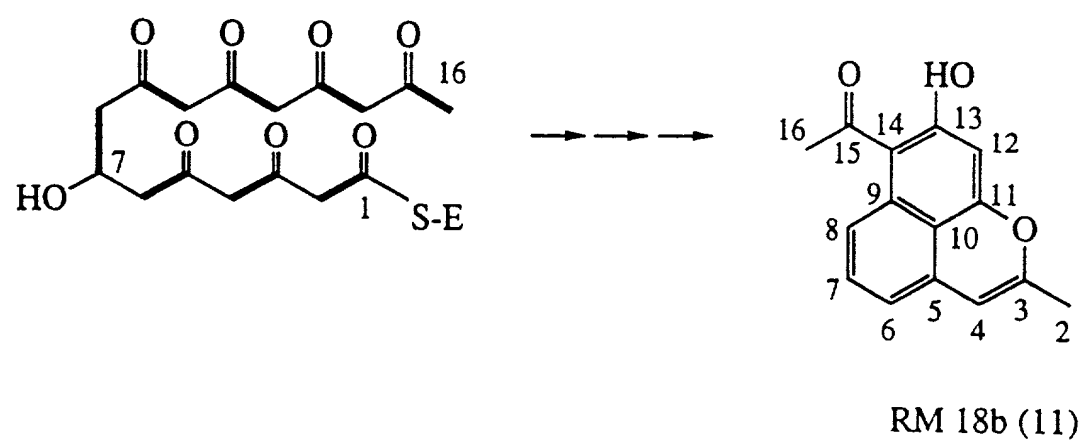
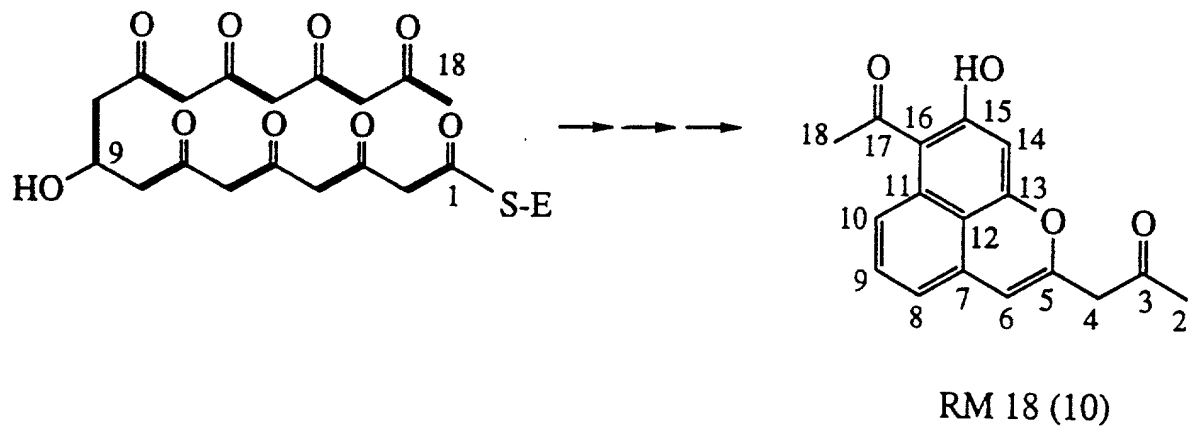
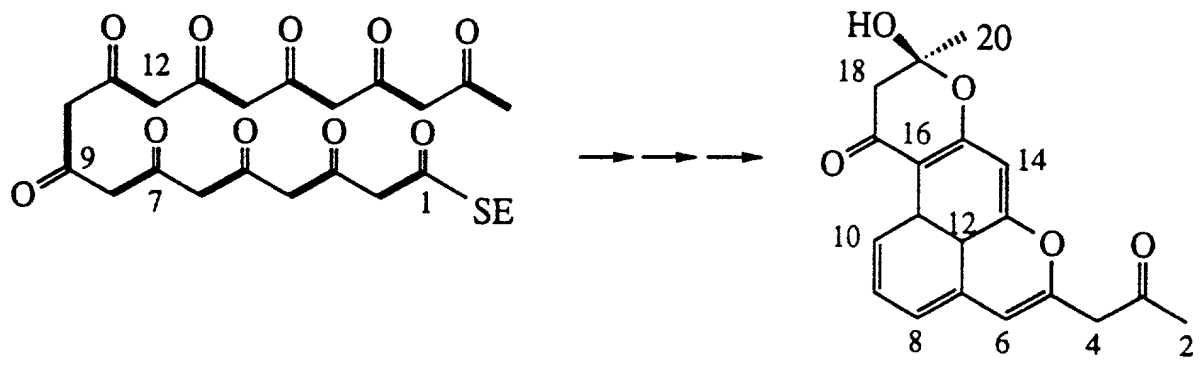


FIG. 8A

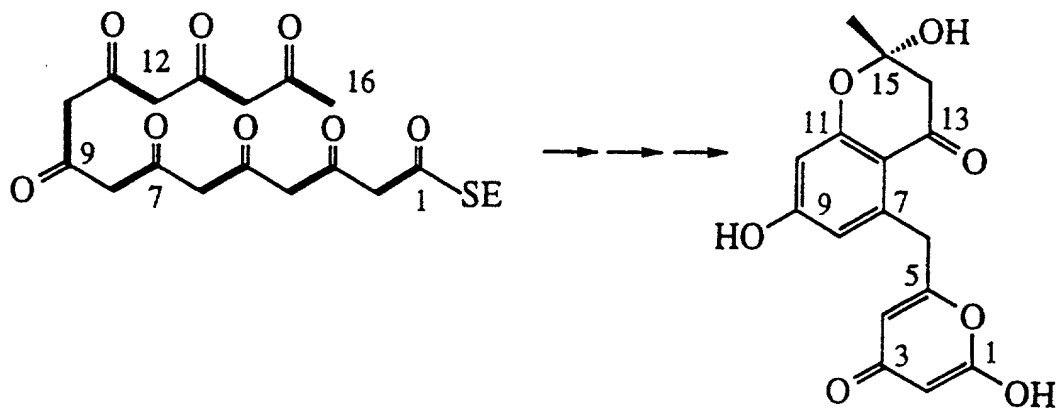
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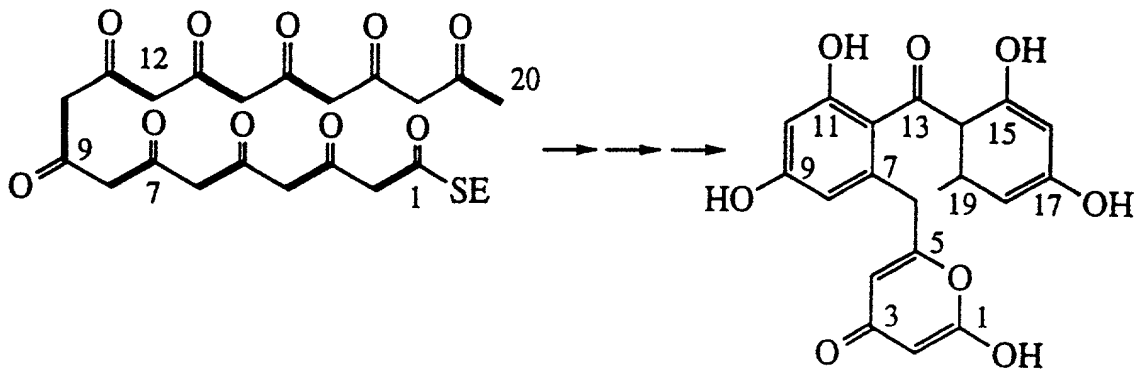
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SEK4 (12)



SEK15 (13)

FIG. 8B

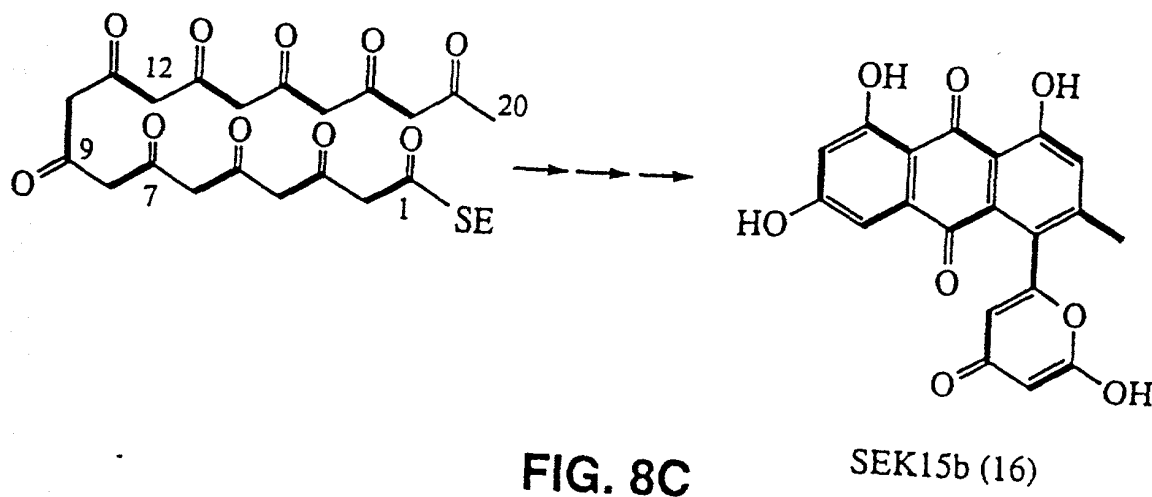
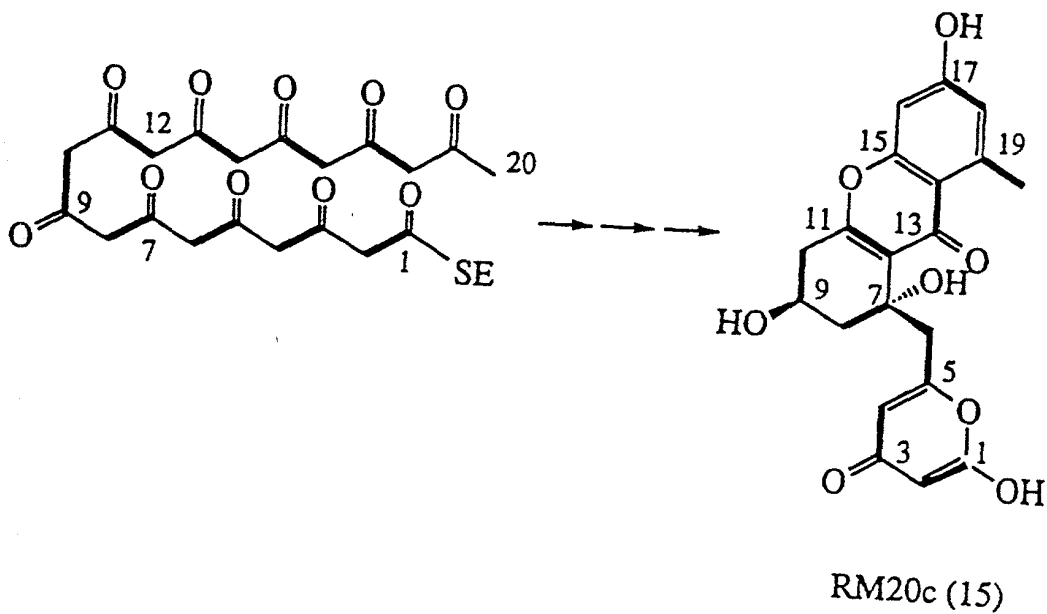
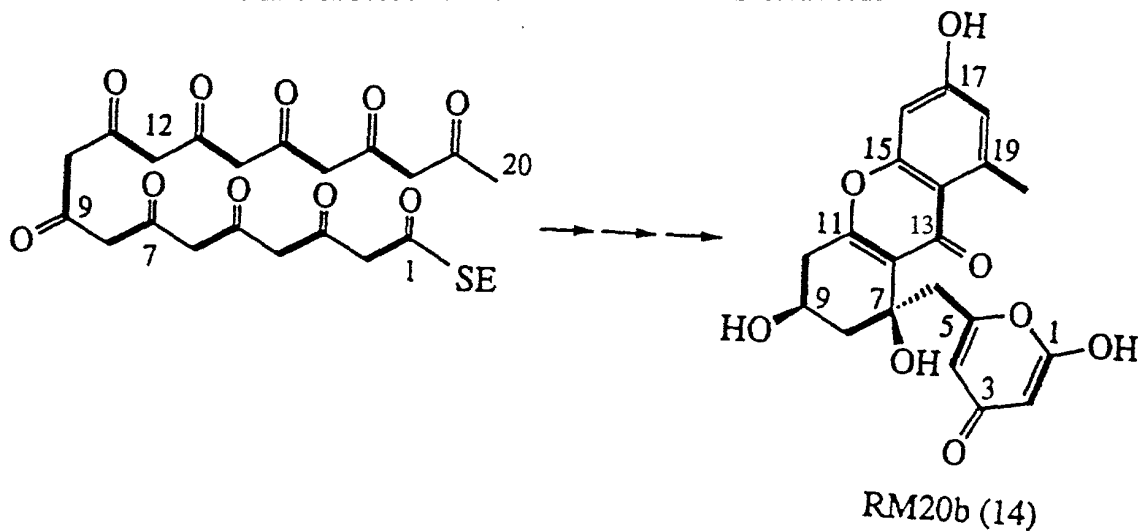


FIG. 8C

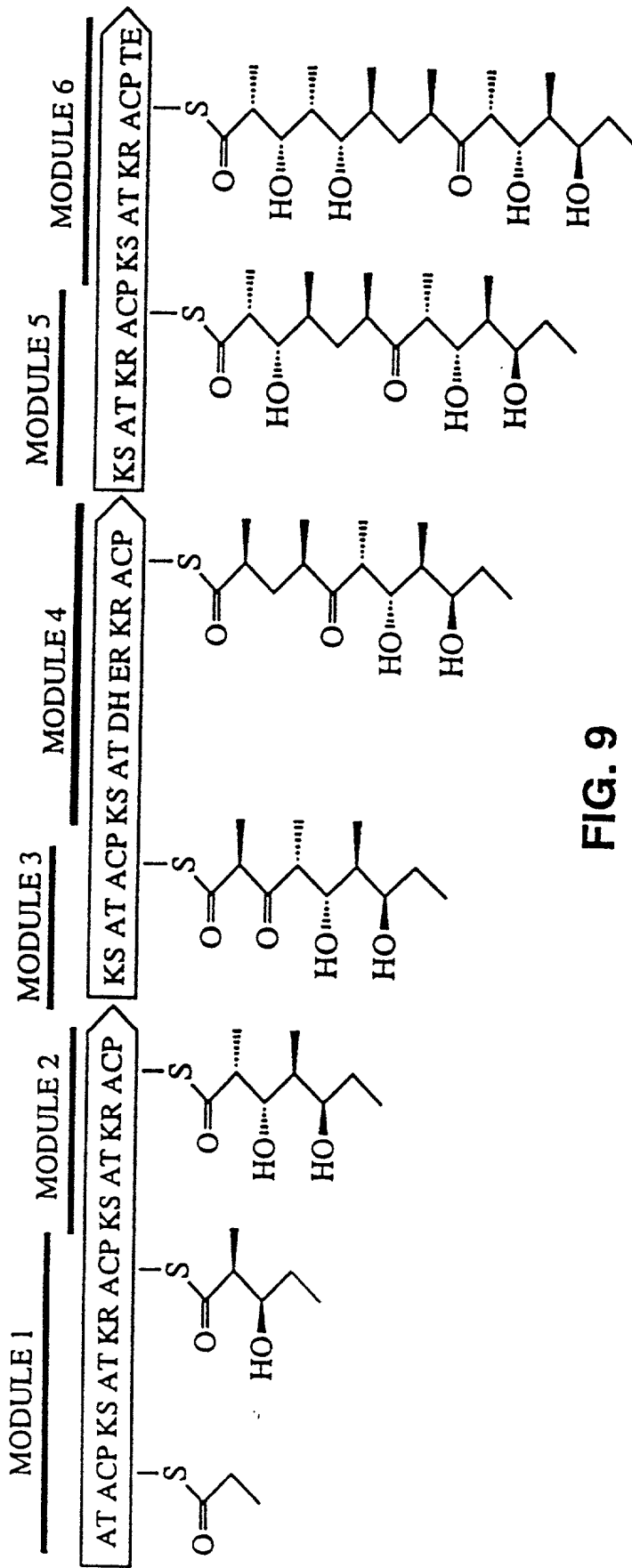


FIG. 9

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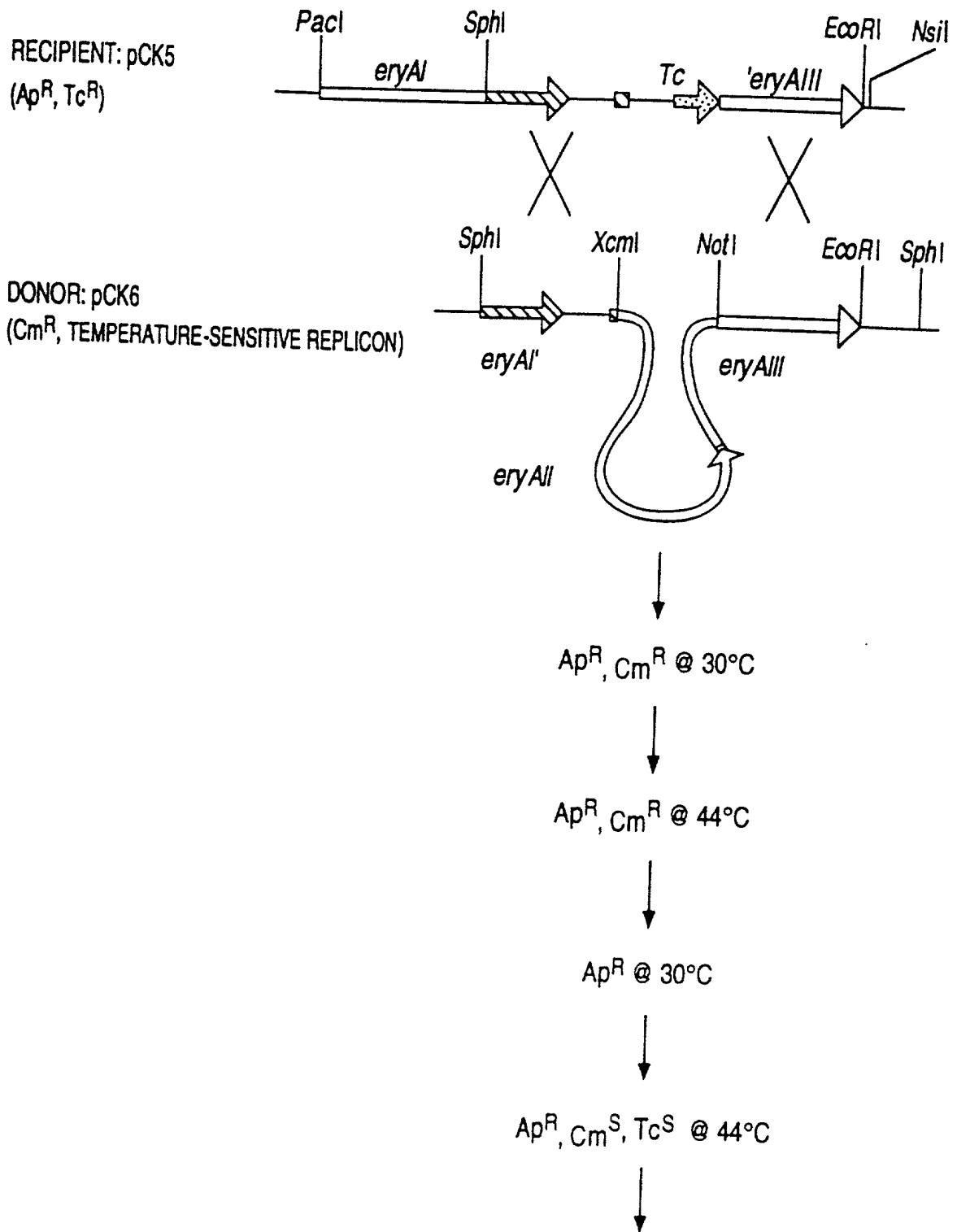


FIG. 10

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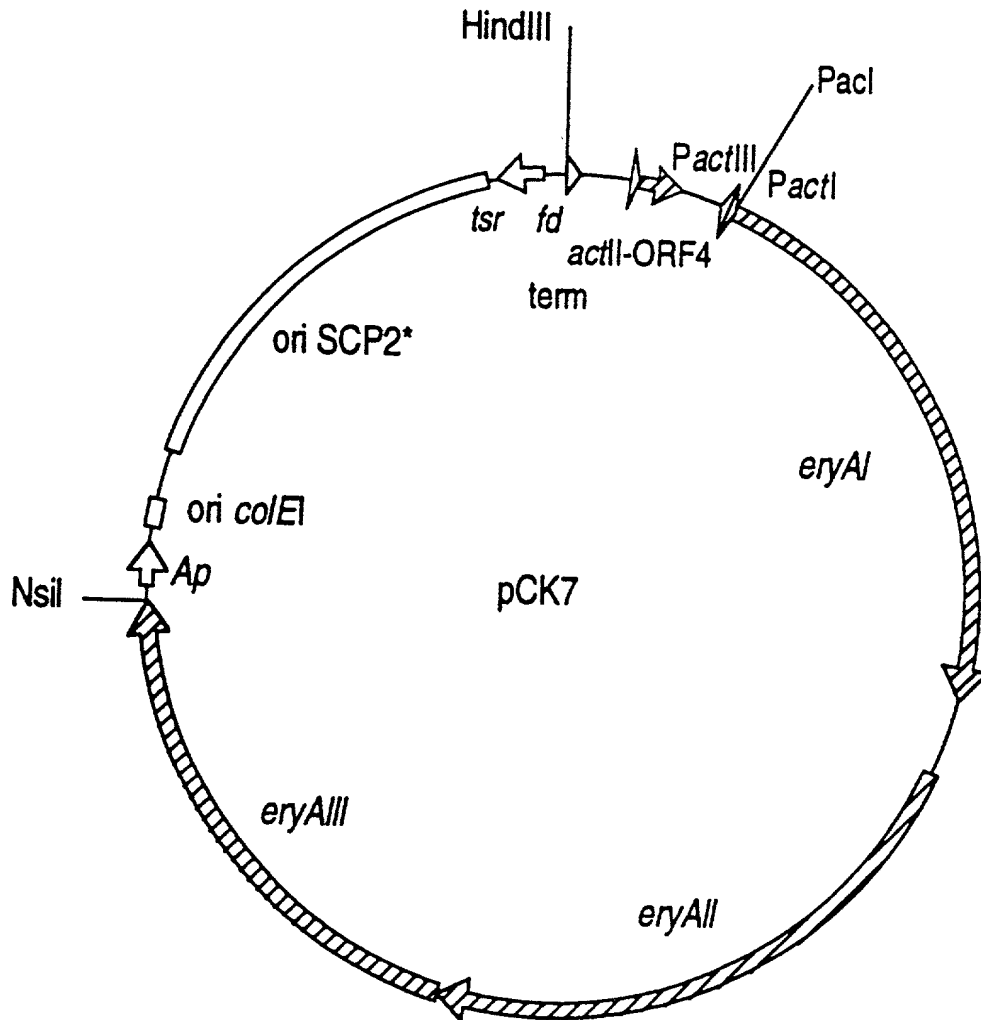


FIG. 11